

1/22

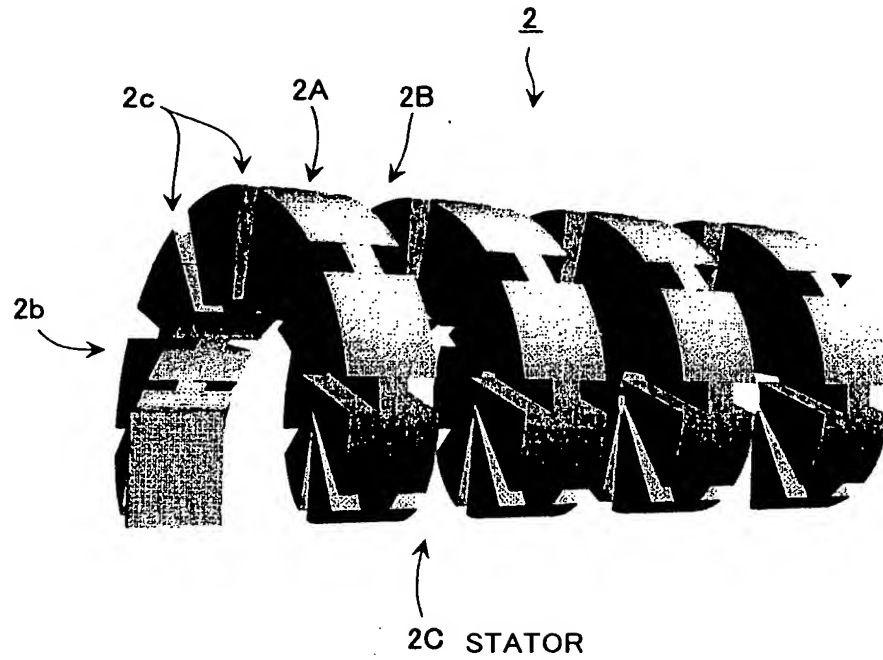
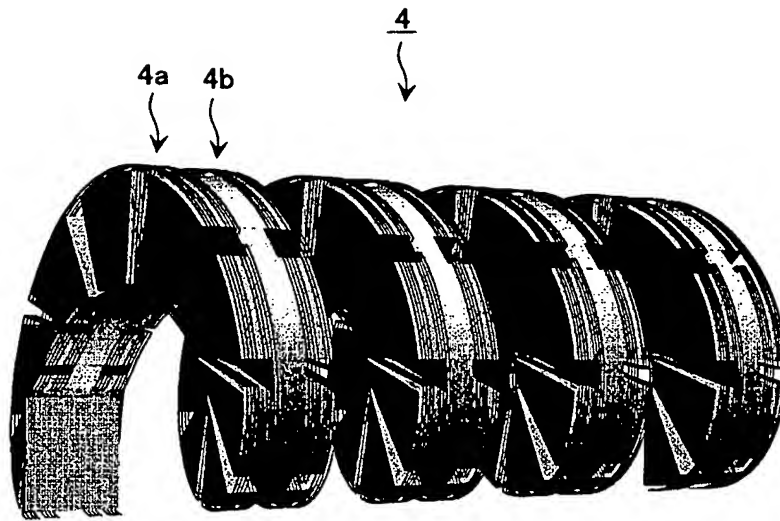


Fig. 1

BEST AVAILABLE COPY

2/22



STATOR ON WHICH WINDING IS WOUND

Fig. 2

3/22

Fig. 3A

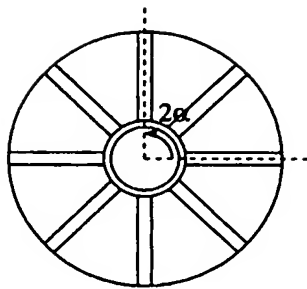


Fig. 3B

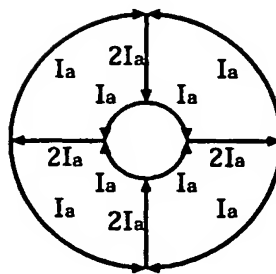
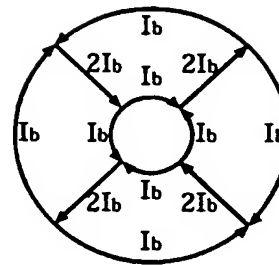


Fig. 3C



AXIAL PROJECTION OF STATOR AND WINDING

4/22

Fig. 4A

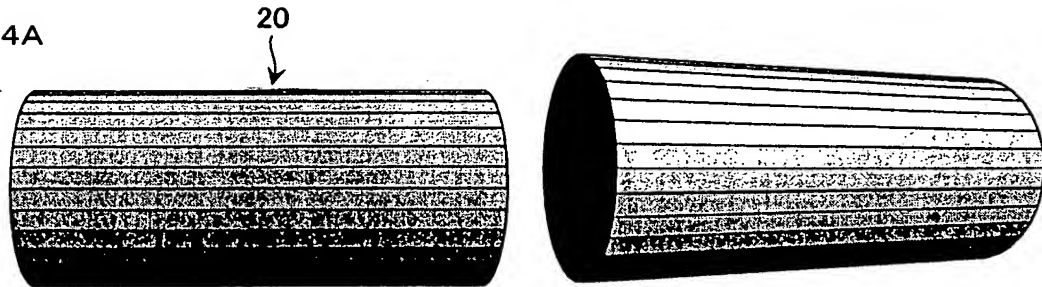


Fig. 4B

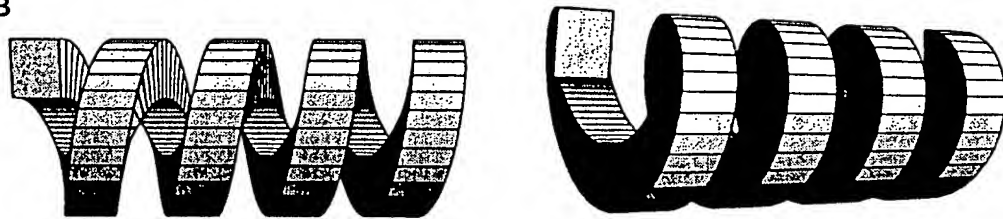
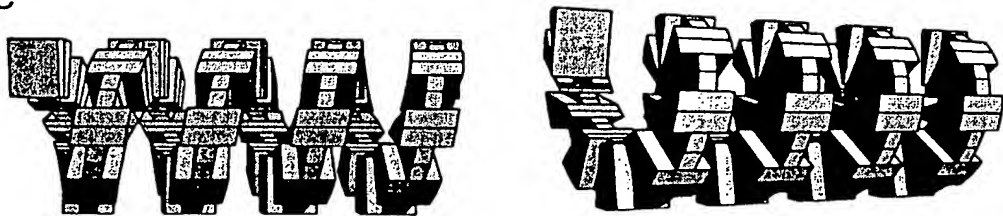


Fig. 4C



5/22

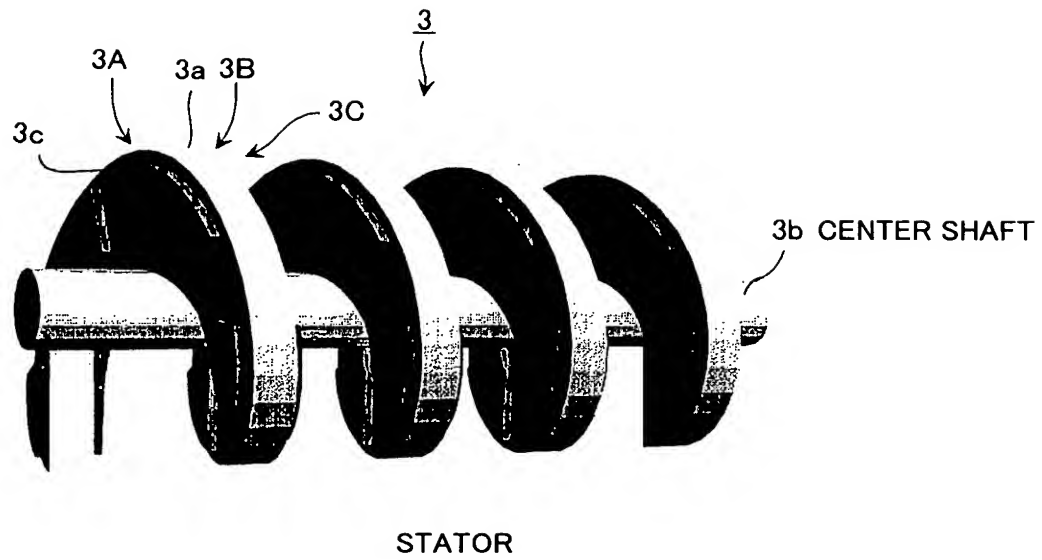
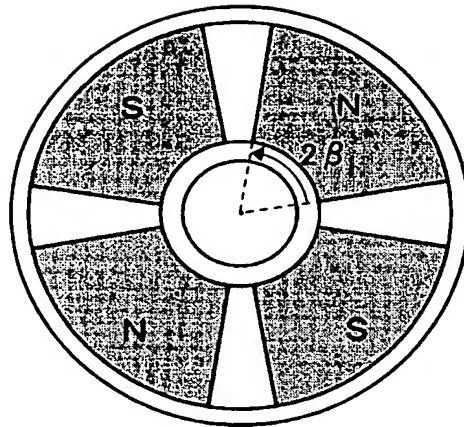


Fig. 5

6/22



AXIAL PROJECTION OF ROTATOR

Fig. 6

7/22

Fig. 7A

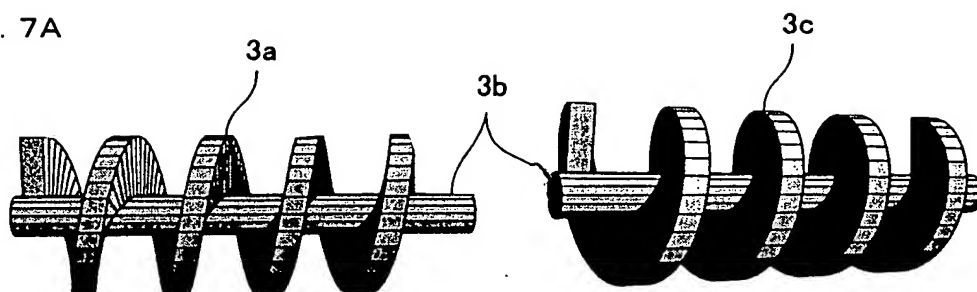
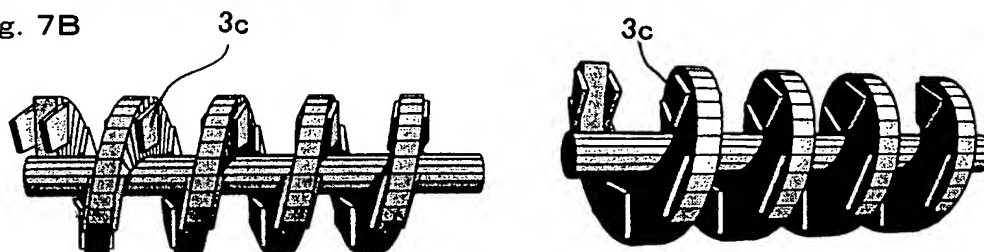
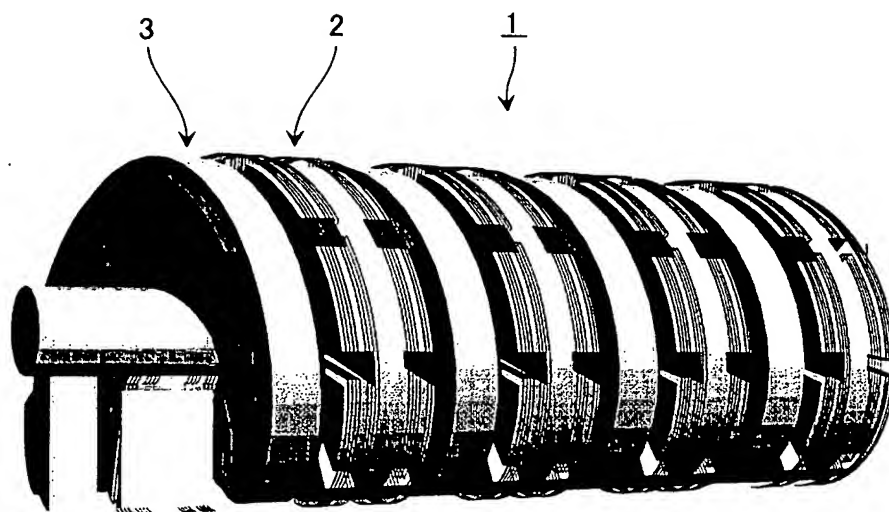


Fig. 7B



8/22

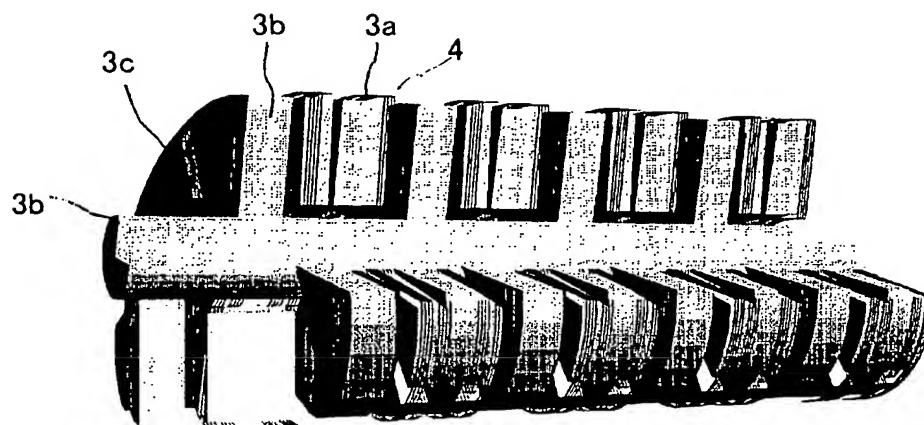


STATOR AND ROTATOR OF SPIRAL LINEAR MOTOR

Fig. 8



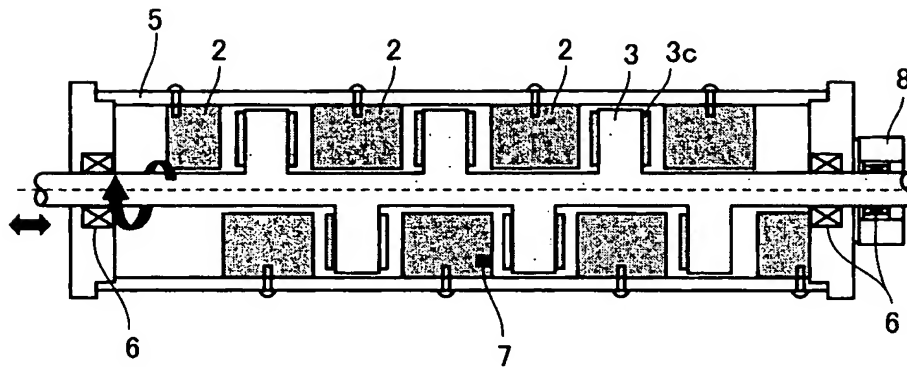
9/22



CUT MODEL OF SPIRAL MOTOR

Fig. 9

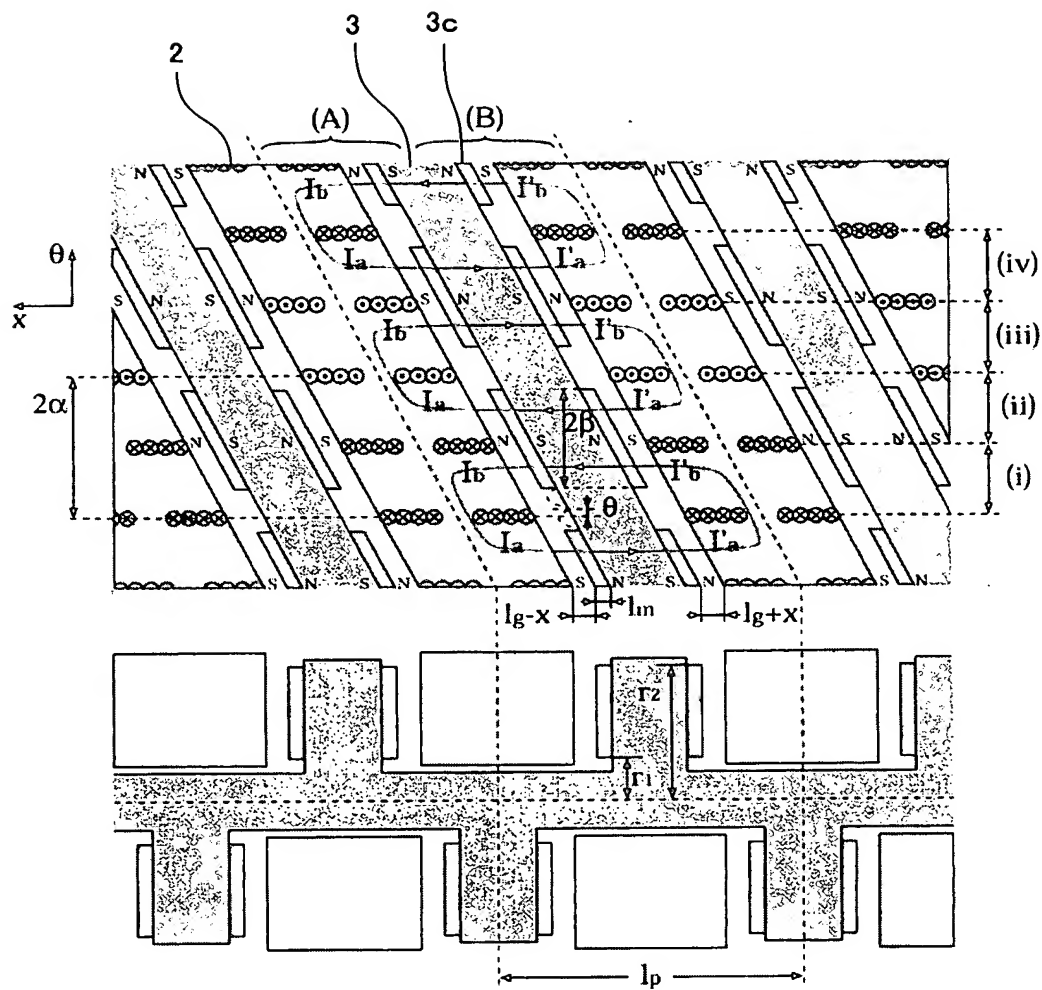
10/22



CROSS-SECTIONAL VIEW OF SPIRAL MOTOR

Fig. 10

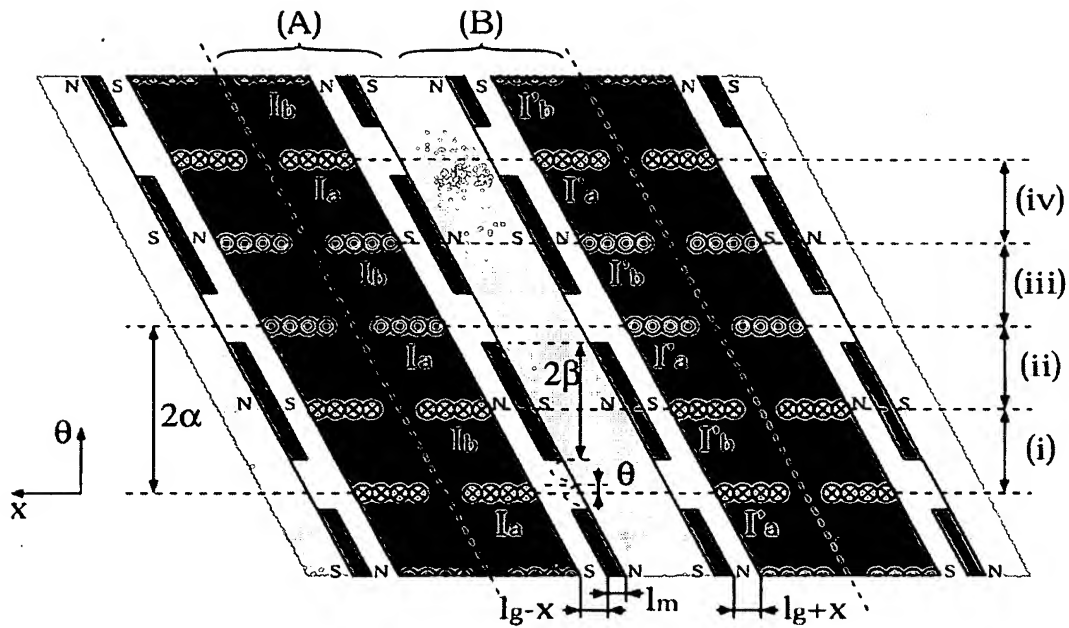
11/22



POLE COORDINATE INTERIOR ELEVATION  
 SUBSTITUTE SHEET (REGULATION 26)

Fig. 11

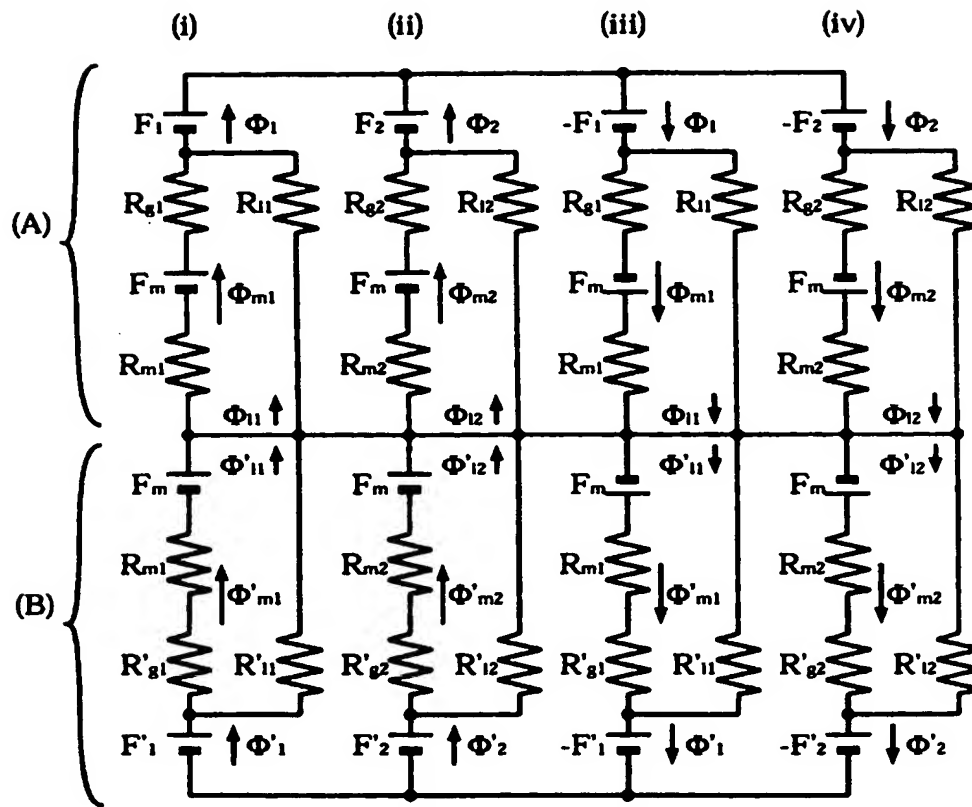
12/22



MODE 1  $(-(\alpha - \beta) \leq \theta \leq \alpha - \beta)$  CASE  
 SUBSTITUTE SHEET (REGULATION 26)

Fig. 12

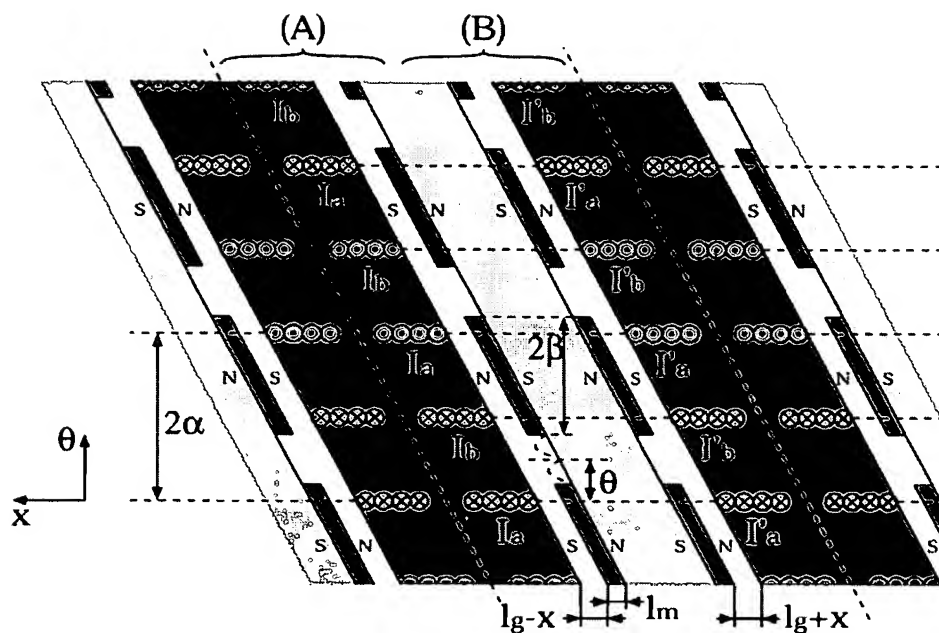
13/22



EQUIVALENCE MAGNETIC CIRCUIT OF MODE 1

Fig. 13

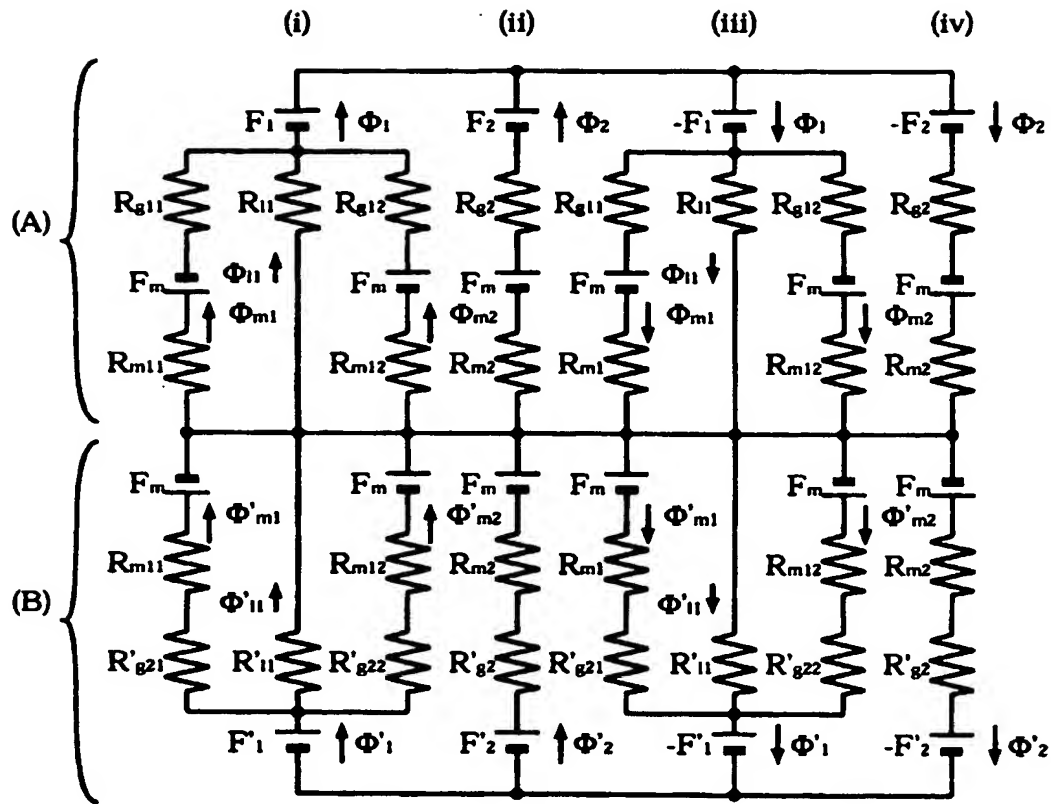
14/22



MODE 2 ( $\alpha - \beta \leq \theta \leq \beta$ ) CASE  
 SUBSTITUTE SHEET (REGULATION 26)

Fig. 14

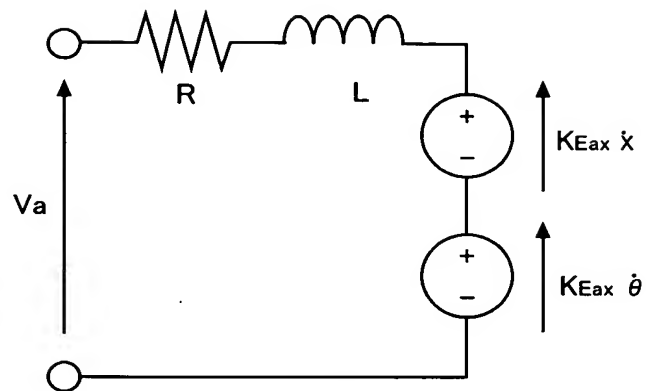
15/22



EQUIVALENCE MAGNETIC CIRCUIT OF MODE 2

Fig. 15

16/22

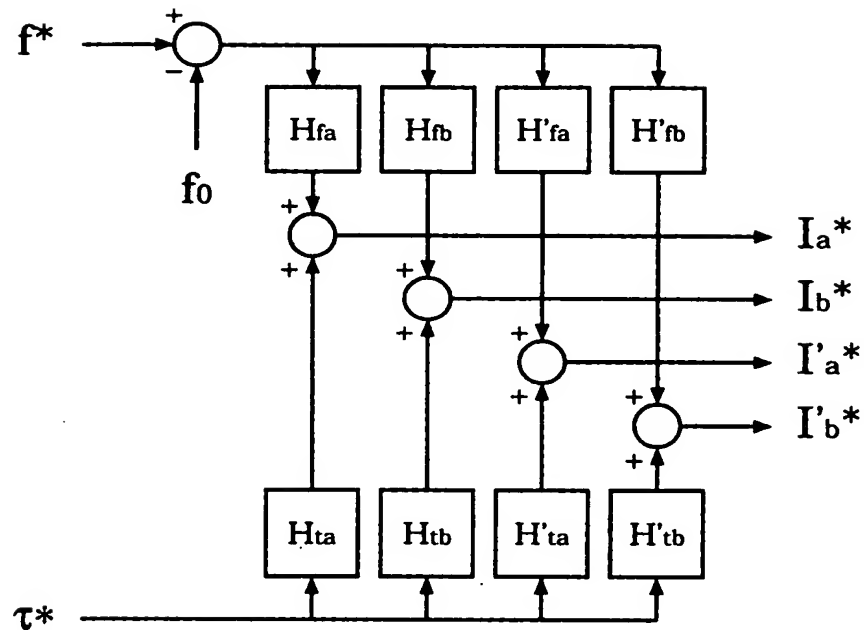


ARMATURE CIRCUIT

Fig. 16



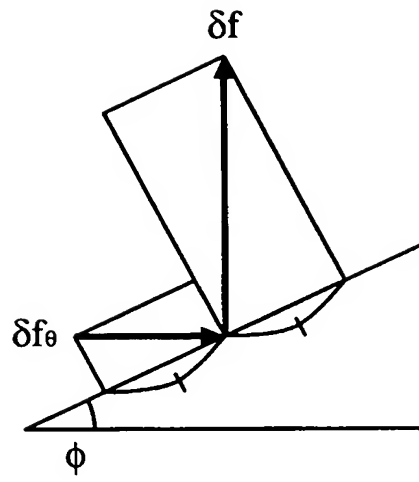
17/22



DRIVE FORCE/TORQUE TO CURRENT CONVERTER

Fig. 17

18/22



SCREW PRINCIPLE

Fig. 18

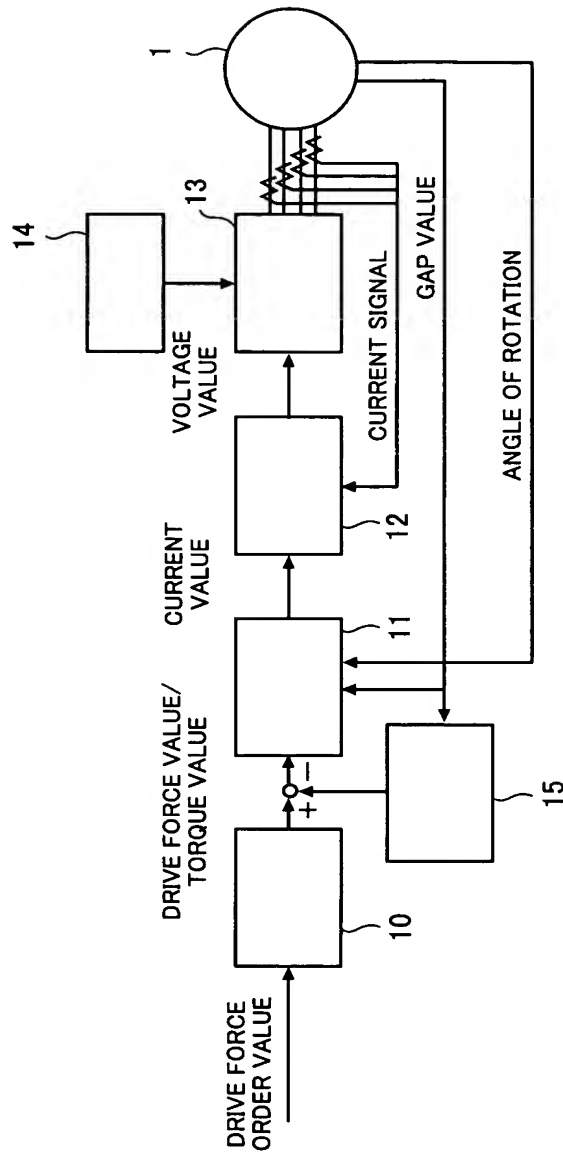
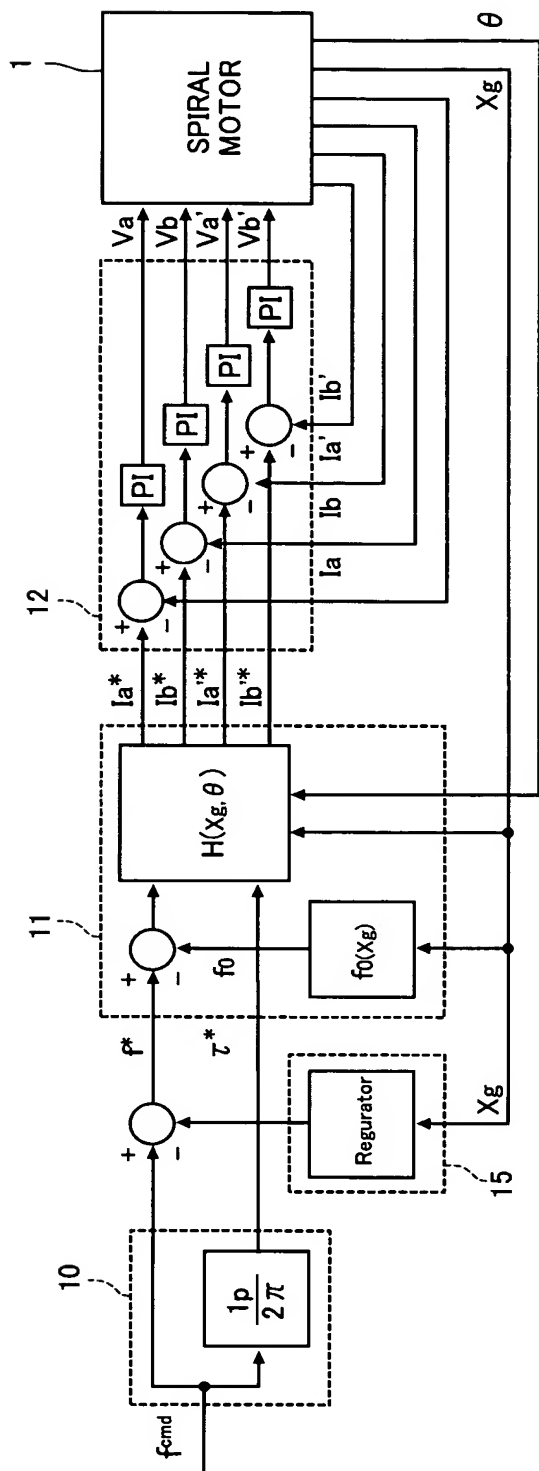


Fig. 19



DETAIL OF DRIVE FORCE CONTROL SYSTEM

Fig. 20

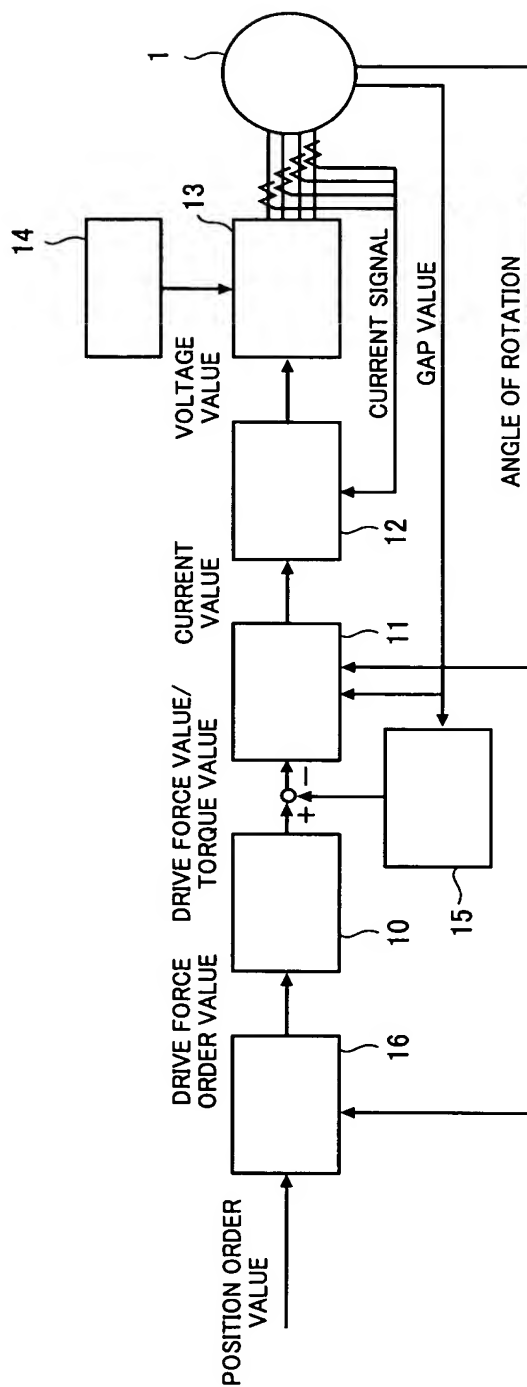
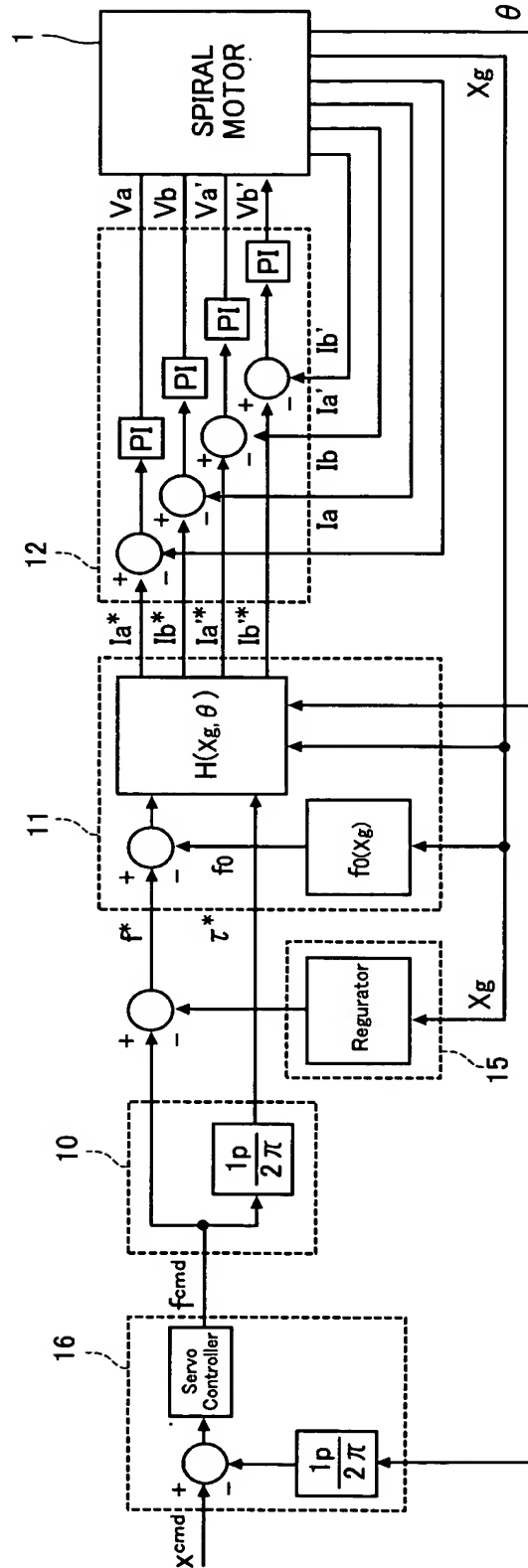


Fig. 21

22/22



DETAIL OF POSITION CONTROL SYSTEM

Fig. 22

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**